

In the Claims

The status of claims in the case is as follows:

- 1 1. [Currently amended] A collaboration space including a plurality of rooms in a hierarchical structure with access control list control on rooms and access control list control on forward pointers to child rooms, comprising:
 - 5 a place comprising a plurality of rooms, each room being a database having an access control list for specifying users authorized to access said room;
 - 8 ~~linked by forward and reverse pointers for linking said rooms, each said forward pointer to a child room including indicia identifying said child room, indicia specifying the address location of the database forming said child room, and a readers field for providing access control list control on said forward pointer;~~
 - 14 ~~a member directory for said place identifying users authorized to enter said place, and~~
 - 16 ~~each said room comprising one or more pages, and for each said room said readers field being a members object for identifying members authorized to access said room and for~~

19 each member a level of authorization.

1 2. [Original] The collaboration space of claim 1, said levels
2 of authorization including manager, author, and reader.

1 3. [Currently amended] A collaboration space, comprising:

2 a place comprising a plurality of rooms in a hierarchical
3 structure linked by forward and backward pointers;

4 a member directory for said place identifying users
5 authorized to enter said place; [[and]]

6 each said room comprising one or more pages, and for each
7 said room a members object for identifying members
8 authorized to access said room and for each member a level
9 of authorization;

10 said rooms including a parent room and a child room, and
11 said pointers comprising forward and backward pointers for
12 enabling the security of each said room to be independently
13 managed, said forward pointers including indicia identifying
14 said child room, indicia specifying the address location of
15 the database forming said child room, and a readers field

16 for providing access control list control on said forward
17 pointer.

1 4. [Currently amended] The collaboration space of claim 3,
2 ~~each said forward pointer further comprising a readers field,~~
3 said readers field including an access authority for each reader
4 authorized to enter said room selectively as manager, author or
5 manager.

1 5. [Currently amended] The collaboration space of claim 3,
2 each said forward pointer being a secure pointer by carrying the
3 same level of security as the child room to which it points.

1 6. [Currently amended] The collaboration space of claim 5,
2 each said forward pointer carrying in said readers field the same
3 security as that of the subroom to which it points.

1 7. [Currently amended] The collaboration space of claim 6,
2 further comprising a display for presenting to a specific user
3 viewing a parent room a listing of its subrooms, said listing
4 including for said specific user only those subrooms for which
5 [[a]] said readers field in said forward pointer includes an

6 entry authorizing access by said specific user.

1 8. [Currently amended] A database access control system,
2 comprising:

3 an access control list for specifying users who can or
4 cannot access said database;

5 for users authorized to access said database, said access
6 control list further specifying access levels and roles
7 determining the specific actions said users are authorized
8 to perform, said roles including reader, author, and
9 manager;

10 a form selectively including a form access list;

11 said database including one or more documents created from
12 said form;

13 forward pointers linking said form to said documents and
14 reverse pointers linking said documents back to said form;

15 said form access list identifying users authorized to read
16 documents created from said form;

17 each said forward pointer to a document including indicia
18 identifying said document, indicia specifying the address
19 location of said document, and a readers field for providing
20 access control list control on said forward pointer
21 including a document access field selectively including a
22 ~~readers field and an authors field for controlling who for~~
23 each user authorized to access said document indicia
24 specifying whether said authorized user can read or modify
25 said document; users identified in any said form access list
26 for said form from which said document was created being
27 included in said readers field;

28 entries in said readers field granting authorization to an
29 individual user equal to or less than the authorization for
30 said individual user in said access control list; and

31 entries in said authors field selectively granting
32 authorization to a user authorized as an author in said
33 access control list to edit a document which said author
34 creates.

1 9. [Currently amended] A method for controlling access to rooms
2 within a collaboration place, comprising the steps of:

3 maintaining for said collaboration place an access control

4 list identifying those users authorized to enter said place;

5 providing forward and reverse pointers linking said rooms in
6 a hierarchical structure within said place, said forward
7 pointers ~~having a~~ including indicia identifying a child
8 room, indicia specifying the address location of the
9 database forming said child room, and a readers field for
10 providing access control list control on said forward
11 pointer; and

12 displaying a parent room to a specific user, said parent
13 room including a list of children rooms for which said
14 readers fields on said forward pointers authorize said
15 specific user access.

1 10. [Currently amended] A method for creating a child room
2 within a collaboration place data base, comprising the steps of:

3 providing for said data base ~~an access~~ a first access
4 control list identifying users authorized to access said
5 data base;

6 providing for said child room a back pointer to a parent
7 room; and

8 providing at said parent room for said child room a forward
9 pointer from said parent room to said child room, said
10 pointer including indicia identifying said child room,
11 indicia specifying the address location of the database
12 forming said child room, and a readers access field listing
13 users authorized to access said child room for providing a
14 second access control list specific to said forward pointer.

1 11. [Currently amended] The method of claim 10, further
2 comprising the steps of:

3 limiting reader access in said readers access field to said
4 child room for a specific user to no more than the access
5 granted said specific user in said first access control
6 list.

1 12. [Original] The method of claim 11, further comprising the
2 step of initially including in said readers access field for
3 a child room created from a form users identified in a form
4 access list identifying users authorized to read rooms
5 created from said form.

1 13. [Currently amended] A program storage device readable by a

2 machine, tangibly embodying a program of instructions executable
3 by a machine to perform method steps for controlling access to
4 rooms within a collaboration place, said method steps comprising:

5 maintaining for said collaboration place ~~an access a first~~
6 access control list identifying those users authorized to
7 enter said place;

8 providing forward and reverse pointers linking said rooms
9 within said place, said forward pointers including indicia
10 identifying a child room, indicia specifying the address
11 location of the database forming said child room, and a
12 second access control list including a having a readers
13 field specifying each user having manager, author, and
14 reader access to said child room; and

15 displaying a parent room to a specific user, said parent
16 room including a list of children rooms for which said
17 readers fields on said forward pointers authorize said
18 specific user access.

1 14. [Currently amended] An article of manufacture comprising:

2 a computer useable medium having computer readable program
3 code means embodied therein for controlling access to rooms

4 within a collaboration place, the computer readable program
5 means in said article of manufacture comprising:

6 computer readable program code means for causing a computer
7 to effect maintaining for said collaboration place ~~an access~~
8 a first access control list identifying those users
9 authorized to enter said place;

10 computer readable program code means for causing a computer
11 to effect providing forward and reverse pointers linking
12 said rooms in a hierarchical structure within said place,
13 said forward pointers including indicia identifying the name
14 and address location of a database forming a child room, and
15 a second access control list having a readers field
16 specifying users having manager, author, and reader access
17 to said child room; and

18 computer readable program code means for causing a computer
19 to effect displaying a parent room to a specific user, said
20 parent room including a list of children rooms for which
21 said readers fields on said forward pointers authorize said
22 specific user access.

1 15. [Currently amended] A computer program product or computer
2 program element for controlling access to rooms within a

3 collaboration place according to the steps of:

4 maintaining for said collaboration ~~place an a first~~ access
5 control list identifying those users authorized to enter
6 said place;

7 providing in a child room second access control list
8 identifying those user authorized to enter said child room
9 with manager, author, or user access;

10 providing forward and reverse pointers linking said rooms in
11 a double-linked list within said place, said forward
12 pointers having a readers field providing a third access
13 control list on said forward pointer, said third access
14 control list providing access to said child room equivalent
15 to said second access control list;

16 displaying a parent room to a specific user, said parent
17 room including on said forward pointers a list of children
18 rooms for which said readers fields authorize said specific
19 user access.